

What Is Claimed Is:

- 1/ A system for delivering therapeutic to an irregular interior vessel surface comprising:
- a catheter having a proximal end, a distal end, and an internal lumen;
- a source of fluid in communication with the internal lumen of the catheter; and
- a first inflatable balloon having an exterior surface,
- the first inflatable balloon in communication with the internal lumen of the catheter,
- the first inflatable balloon being hyper-deformable, and
- the exterior surface of the first inflatable balloon in communication with a therapeutic when the first inflatable balloon is in an expanded state.
2. The system for delivering therapeutic of claim 1 wherein the exterior surface of the first inflatable balloon is covered with a therapeutic.
3. The system for delivering therapeutic of claim 1 further comprising:
- a source of therapeutic, the source of therapeutic in fluid communication with the exterior surface of the first inflatable balloon.
4. The system for delivering therapeutic of claim 3 wherein the therapeutic traverses through a section of the first inflatable balloon before the therapeutic comes in communication with the exterior surface of the first inflatable balloon.

1 5. The system for delivering therapeutic of claim 1 further comprising:
2 a dilation bladder located within the first inflatable balloon,
3 the dilation bladder in fluid communication with the proximal end of the
4 catheter,
5 the dilation bladder deformable from a non-inflated position to an inflated
6 position.

1 6. The system for delivering therapeutic of claim 1 further comprising:
2 a second inflatable balloon, the second inflatable balloon located within the first
3 inflatable balloon,
4 the second inflatable balloon having an outside surface, the outside surface
5 in communication with a source of therapeutic,
6 the first inflatable balloon having a plurality of apertures in fluid
7 communication with the outside surface of the second inflatable balloon.

1 7. The system for delivering therapeutic of claim 1 further comprising:
2 a second internal lumen within the catheter,
3 the first inflatable balloon positioned around the second internal lumen,
4 the second internal lumen having an entrance orifice and an exit orifice,
5 the entrance orifice positioned upstream of the inflatable balloon,
6 upstream relative to a fluid flowing through the irregular interior vessel, and the exit orifice
7 positioned downstream of the inflatable balloon, downstream relative to fluid flowing through
8 the irregular interior vessel.

1 8. The system for delivering therapeutic of claim 1 wherein the first inflatable balloon is
2 made with a latex material and wherein the source of fluid is adapted to control the rate of
3 inflation of the balloon.

1 9. The system for delivering therapeutic of claim 1 wherein the first inflatable balloon is
2 made with a silicone material and wherein the source of fluid is adapted to control the rate of
3 inflation of the balloon.

1 10. The system for delivering therapeutic of claim 1 wherein the first inflatable balloon is
2 made with a polyurethane material and wherein the source of fluid is adapted to control the rate
3 of inflation of the balloon.

1 11. The system for delivering therapeutic of claim 1 wherein the first inflatable balloon is
2 porous relative to the therapeutic being delivered.

1 12. A device for delivering therapeutic to an irregular interior vessel surface comprising:
2 a catheter having a proximal end, a distal end, and an internal lumen;
3 a hyper-deformable inflatable balloon in fluid communication with the internal
4 lumen of the catheter, the hyper-deformable inflatable balloon having an exterior surface and an
5 interior surface;
6 a source of fluid in fluid communication with the internal lumen; and
7 a fluid pump in fluid communication with the source of fluid.

1 13. The device of claim 12 wherein the exterior surface of the hyper-deformable inflatable
2 balloon is in contact with a therapeutic.

1 14. The device of claim 12 further comprising:
2 a source of therapeutic, the source of therapeutic in fluid communication with the
3 exterior surface of the hyper-deformable inflatable balloon.

1 15. The device of claim 14 wherein the therapeutic traverses through the hyper-deformable
2 inflatable balloon before the therapeutic contacts the exterior surface of the hyper-deformable
3 inflatable balloon.

1 16 The device of claim 14 further comprising:
2 a dilation bladder located within the hyper-deformable inflatable balloon,
3 the dilation bladder in fluid communication with the proximal end of the
4 catheter,
5 the dilation bladder deformable from a non-inflated position to an inflated
6 position.

1 17. The device of claim 16 further comprising:
2 a second internal lumen within the catheter,
3 the second internal lumen passing through the hyper-deformable inflatable
4 balloon, the hyper-deformable inflatable balloon positioned around the second internal lumen,
5 the second internal lumen having an entrance orifice and an exit orifice,
6 the entrance orifice positioned upstream of the hyper-deformable
7 inflatable balloon, upstream relative to a fluid flowing through the irregular interior vessel, and
8 the exit orifice positioned downstream of the hyper-deformable inflatable balloon, downstream
9 relative to fluid flowing through the irregular interior vessel.

1 18. The device of claim 16 further comprising:
2 a second balloon positioned between the dilation bladder and the hyper-
3 deformable inflatable balloon, the second balloon having an outside surface, the outside surface
4 in communication with therapeutic.

1 19. The device of claim 12 wherein the hyper-deformable inflatable balloon is made with a
2 latex material.

1 20. A method for delivering therapeutic to an irregular interior vessel surface of a patient
2 comprising:

3 inserting an expandable hyper-deformable membrane into the vessel of the
4 patient, the expandable hyper-deformable membrane having an exterior surface;

5 positioning the expandable hyper-deformable membrane at an irregular interior
6 surface of the vessel within the patient; and

7 forcing fluid into the expandable hyper-deformable membrane to expand the
8 expandable hyper-deformable membrane, the expandable hyper-deformable membrane becoming
9 juxtaposed to the irregular interior surface of the vessel of the patient.

1 21. The method of claim 20 wherein the exterior surface of the expandable hyper-deformable
2 membrane is in communication with a therapeutic.

1 22. The method of claim 20 further comprising:

2 pushing a therapeutic over the exterior surface of the expandable hyper-
3 deformable membrane after the expandable hyper-deformable membrane is positioned at the
4 irregular interior surface of the vessel.

1 23. The method of claim 22 wherein the therapeutic is pushed through the expandable hyper-
2 deformable membrane to reach the exterior surface of the expandable hyper-deformable
3 membrane and wherein the fluid is a tracing fluid.

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